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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/396,740	09/15/1999	HIROYUKI SHINBATA	35.C13834	7882

5514 7590 05/19/2003

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[REDACTED] EXAMINER

BRINICH, STEPHEN M

ART UNIT	PAPER NUMBER
2624	[REDACTED]

DATE MAILED: 05/19/2003

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Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	09/396,740	SHINBATA ET AL.
<b>Examiner</b>	<b>Art Unit</b>	
Stephen M Brinich	2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 24 January 2000.
- 2a) This action is **FINAL**.                    2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-18 is/are pending in the application.
  - 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1-18 is/are rejected.
- 7) Claim(s) \_\_\_\_\_ is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.
 

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on \_\_\_\_\_ is: a) approved b) disapproved by the Examiner.
 

If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

#### Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) All    b) Some \* c) None of:
    1. Certified copies of the priority documents have been received.
    2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_ .
    3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
  - a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .
2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .	6) <input type="checkbox"/> Other: _____ .

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**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Matama (6101273).

Re claims 1, 5, 7, 15, & 17, Matama '273 discloses (Figure 14; column 20, lines 8-34) an image signal processing system in which a characteristic amount (an unsharp signal from low pass filter 30) is generated, a high frequency component signal is

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generated (by subtracting the low pass filtered unsharp signal from the original signal at subtractor 31), the signal gradation is compressed on the basis of the characteristic amount (the signal generated by look up table 19 is a function of the characteristic amount, which is the unsharp signal input value), and the generated high frequency component is added to the gradation converted signal (adder 20).

Re claims 2-3, the generated high frequency component output by subtractor 31 is corrected in accordance with its pixel value by being multiplied by a coefficient at amplifier 32.

Re claim 4, the result of adder 20 is inherently modified in accordance to the gradation conversion at LUT 19, as the output of LUT 19 is one of the added quantities.

Re claim 6, the LPF 30 is a 3x3 morphological filter.

Re claims 8, 10-14, 16, & 18, the recitation of "a medical image" is met in any case in which the original image is of a "medical" type.

Re claim 9, Matama '273 discloses (column 1, lines 6-12) the processing of an image obtained from a photograph (which is inherently produced by an "irradiation field" of some type, such as X-rays, visible light, etc).

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Further re claims 10-14, 16, & 18, Matama '273 discloses a variable gradation compression that may be set to various levels on the basis of user input (column 14, lines 5-54).

**Conclusion**

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Edwards et al, Takeo, Matama (5905810), and Nakamura disclose additional examples of image gradation processing.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. Brinich at 703-305-4390. The examiner can normally be reached on weekdays 7:00-4:30, alternate Fridays off.

If attempts to contact the examiner are unsuccessful, supervisor David Moore can be contacted at 703-308-7452.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Tech Center 2600 Customer Service center at 703-306-0377.

Faxes pertaining to this application should be directed to the Tech Center 2600 official fax number, which is 703-872-9314.

*Stephen Brinich*  
Stephen M Brinich  
Examiner  
Art Unit 2624

smb  
May 15, 2003